

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|------------------|---|-----------------|---|---|---|---|---|---|--|----------|--------------------|-------|-----------|-------------|
| <i>7</i> | A | 0 | 0 | 0 | 5 | 4 | 7 | 8 | | 01/17/02 | Hillenkamp | 250 | 288 | 01/14/00 |
| | B | 3 | 5 | 5 | 3 | 4 | 5 | 2 | | 01/05/71 | Tiernan et al. | 250 | 41.9 | 02/17/69 |
| | C | 3 | 7 | 7 | 6 | 7 | 0 | 0 | | 12/04/73 | Gallant | 422 | 65 | 12/08/71 |
| | D | 3 | 8 | 0 | 7 | 2 | 3 | 5 | | 04/30/74 | Lerkovitz | 73 | 863.32 | 10/06/72 |
| | E | 3 | 9 | 3 | 1 | 5 | 1 | 6 | | 01/06/76 | Fletcher et al. | 250 | 281 | 08/30/74 |
| | F | 4 | 0 | 4 | 7 | 0 | 3 | 0 | | 09/06/77 | Lobach | 250 | 281 | 09/24/75 |
| | G | 4 | 0 | 7 | 6 | 9 | 8 | 2 | | 02/28/78 | Ritter et al. | 250 | 288 | 10/06/76 |
| | H | 4 | 1 | 3 | 9 | 3 | 4 | 6 | | 02/13/79 | Rabbani | 422 | 56 | 11/28/77 |
| | I | 4 | 2 | 1 | 4 | 1 | 5 | 9 | | 07/22/80 | Hillenkamp et al. | 250 | 288 | 08/31/78 |
| | J | 4 | 4 | 6 | 1 | 3 | 2 | 8 | | 07/24/84 | Kenney | 422 | 100 | 06/04/82 |
| | K | 4 | 5 | 1 | 5 | 7 | 8 | 1 | | 05/07/85 | Torrence et al. | 514 | 46 | 02/23/83 |
| | L | 4 | 5 | 5 | 4 | 8 | 3 | 9 | | 11/26/85 | Hewett et al. | 73 | 864.16 | 10/14/83 |
| | M | 4 | 5 | 8 | 2 | 7 | 8 | 9 | | 04/15/86 | Sheldon III et al. | 435 | 6 | 12/18/84 |
| | N | 4 | 6 | 0 | 4 | 3 | 6 | 3 | | 10/18/99 | Newhouse et al. | 436 | 177 | 08/05/86 |
| | O | 4 | 6 | 2 | 5 | 1 | 1 | 2 | | 11/25/86 | Yoshida | 250 | 287 | 06/21/84 |
| | P | 4 | 6 | 6 | 3 | 9 | 4 | 4 | | 05/12/87 | Bernius et al. | 62 | 51.1 | 07/12/85 |
| | Q | 4 | 7 | 1 | 1 | 9 | 5 | 5 | | 12/08/87 | Ward et al. | 536 | 25.32 | 05/23/83 |
| | R | 4 | 7 | 3 | 3 | 0 | 7 | 3 | | 03/22/88 | Becker et al. | 250 | 288 | 05/16/86 |
| | S | 4 | 7 | 4 | 0 | 6 | 9 | 2 | | 04/26/88 | Yamamoto et al. | 250 | 288 | 06/12/86 |
| | T | 4 | 7 | 7 | 9 | 4 | 6 | 7 | | 10/25/88 | Rainin et al. | 73 | 863.32 | 01/28/87 |
| | U | 4 | 8 | 0 | 6 | 5 | 4 | 6 | | 02/21/89 | Carrico et al. | 536 | 27 | 09/30/85 |
| <i>V</i> | V | 4 | 8 | 2 | 6 | 3 | 6 | 0 | | 05/02/89 | Iwasawa et al. | 406 | 51 | 02/25/87 |

EXAMINER

John C.

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY
MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|------------------|------------------|----------|-------------------|-------|-----------|-------------|
| | | | | | | |
| | W 4 8 5 1 0 1 8 | 07/25/89 | Lazzari et al. | 55 | 356 | 11/20/87 |
| | X 4 8 7 7 7 4 5 | 10/31/89 | Hayes et al. | 436 | 166 | 03/14/89 |
| | Y 4 8 8 2 1 2 7 | 11/21/89 | Rosenthal et al. | 422 | 50 | 11/12/87 |
| | Z 4 9 2 0 2 6 4 | 04/24/90 | Becker | 250 | 289 | 01/17/89 |
| | AA 4 9 2 5 6 2 9 | 05/15/90 | Schramm | 422 | 82.05 | 07/28/88 |
| | AB 4 9 5 2 5 1 8 | 08/28/90 | Johnson et al. | 436 | 518 | 12/28/87 |
| | AC 4 9 8 8 6 1 7 | 01/29/91 | Landegren et al. | 435 | 6 | 03/25/88 |
| | AD 5 0 0 0 9 2 1 | 03/19/91 | Hanaway et al. | 422 | 100 | 02/08/90 |
| | AE 5 0 0 3 0 5 9 | 03/26/91 | Brennan | 536 | 27 | 06/20/88 |
| | AF 5 0 5 9 6 5 4 | 10/22/91 | Hou et al. | 525 | 54.1 | 02/16/89 |
| | AG 5 0 6 4 7 5 4 | 11/12/91 | Mills | 436 | 6 | 11/13/87 |
| | AH 5 1 0 8 7 0 3 | 04/28/92 | Pfost et al. | 422 | 65 | 05/10/91 |
| | AI 5 1 1 8 6 0 5 | 06/02/92 | Urdea et al. | 436 | 6 | 09/29/88 |
| | AJ 5 1 1 8 9 3 7 | 06/02/92 | Hillenkamp et al. | 250 | 282 | 08/21/90 |
| | AK 5 1 2 2 3 4 2 | 06/16/92 | McCulloch et al. | 422 | 65 | 07/12/89 |
| | AL 5 1 3 5 8 7 0 | 08/04/92 | Williams et al. | 436 | 173 | 06/01/90 |
| | AM 5 1 4 3 4 5 1 | 09/01/92 | Millgard | 374 | 25 | 05/20/91 |
| | AN 5 1 4 3 8 5 4 | 09/01/92 | Pirrung et al. | 436 | 518 | 03/07/90 |
| | AO 5 1 4 9 6 2 5 | 09/22/92 | Church et al. | 435 | 6 | 03/28/90 |
| | AP 5 1 6 4 5 9 4 | 11/07/92 | Thompson et al. | 250 | 288 | 10/22/91 |
| | AQ 5 1 7 5 2 0 9 | 12/29/92 | Beattie et al. | 525 | 54.11 | 01/31/91 |
| ✓ | AR 5 1 7 5 4 3 0 | 12/29/92 | Enke et al. | 250 | 282 | 05/17/91 |

EXAMINER

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

| | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|---------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | | | | | | | | | ATTY. DOCKET NO. 25491-2408B | SERIAL NO. 10/645,816 |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT | | | | | | | | | APPLICANT CANTOR et al. | |
| | | | | | | | | | FILING DATE August 20, 2003 | GROUP Unassigned |



U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|---------------------|----|-----------------|---|---|---|---|---|---|----------|-----------------------|------|--------|--------------|----------------|
| <i>M</i> | AS | 5 | 1 | 9 | 8 | 5 | 4 | 0 | 03/30/93 | Koster | 536 | 25.3 | 06/25/84 | |
| | AT | 5 | 2 | 0 | 2 | 2 | 3 | 1 | 04/13/93 | Drmanac et al. | 435 | 6 | 06/18/91 | |
| | AU | 5 | 2 | 1 | 0 | 4 | 1 | 2 | 05/11/93 | Levis et al. | 648 | 282 | 01/31/91 | |
| | AV | 5 | 2 | 2 | 1 | 5 | 1 | 8 | 06/22/93 | Mills | 422 | 62 | 08/13/91 | |
| | AW | 5 | 2 | 3 | 7 | 0 | 1 | 6 | 08/17/93 | Ghosh et al. | 525 | 329.4 | 01/05/89 | |
| | AX | 5 | 2 | 4 | 2 | 9 | 7 | 4 | 09/07/93 | Holmes | 525 | 54.11 | 11/22/91 | |
| | AY | 5 | 2 | 4 | 7 | 1 | 7 | 5 | 09/21/93 | Schoen et al. | 250 | 281 | 05/27/92 | |
| | AZ | 5 | 2 | 6 | 2 | 1 | 2 | 8 | 11/16/93 | Leghton et al. | 422 | 100 | 10/23/89 | |
| | BA | 5 | 2 | 7 | 3 | 7 | 1 | 8 | 12/28/93 | Skold et al. | 422 | 101 | 08/07/91 | |
| | BB | 5 | 2 | 8 | 8 | 6 | 4 | 4 | 02/22/94 | Beavis et al. | 436 | 94 | 11/13/92 | |
| | BC | 5 | 3 | 0 | 0 | 7 | 7 | 4 | 04/05/94 | Buttrill | 250 | 287 | 04/25/91 | |
| | BD | 5 | 3 | 0 | 6 | 6 | 1 | 9 | 04/26/94 | Edwards et al. | 435 | 6 | 06/22/93 | |
| | BE | 5 | 3 | 2 | 5 | 0 | 2 | 1 | 06/28/94 | Duckworth et al. | 315 | 111.51 | 09/11/92 | |
| | BF | 5 | 3 | 3 | 8 | 6 | 8 | 8 | 08/16/94 | Deeg et al. | 436 | 180 | 02/19/93 | |
| | BG | 5 | 3 | 5 | 0 | 6 | 7 | 6 | 09/27/94 | Oberhardt et al. | 435 | 13 | 05/17/93 | |
| | BH | 5 | 3 | 6 | 3 | 8 | 8 | 3 | 11/15/94 | McConnell et al. | 139 | 450 | 02/18/93 | |
| | BI | 5 | 3 | 6 | 4 | 7 | 6 | 0 | 11/15/94 | Chu et al. | 435 | 6 | 09/22/92 | |
| | BJ | 5 | 3 | 6 | 5 | 0 | 6 | 3 | 11/15/94 | Kaesdorf et al. | 250 | 288 | 06/21/93 | |
| | BK | 5 | 3 | 8 | 1 | 0 | 0 | 8 | 01/10/95 | Tanner et al. | 250 | 288 | 05/11/93 | |
| | BL | 5 | 3 | 8 | 2 | 7 | 9 | 3 | 01/17/95 | Weinberg er et al. | 250 | 288 | 01/06/92 | |
| | BM | 5 | 4 | 0 | 3 | 7 | 1 | 1 | 04/04/95 | Walder et al. | 435 | 6 | 07/06/93 | |
| ↓ | BN | 5 | 4 | 2 | 7 | 9 | 2 | 9 | 06/27/95 | Richards et al. | 435 | 91.2 | 05/03/93 | |

EXAMINER

Milner

DATE CONSIDERED

1/5/2003

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|------------------|----|-----------------|---|---|---|---|---|---|----------|-----------------|------|-------|-----------|-------------|
| <i>M</i> | BO | 5 | 4 | 3 | 6 | 1 | 4 | 3 | 07/25/95 | Hyman | 435 | 91.2 | 12/23/92 | |
| | BP | 5 | 4 | 3 | 9 | 6 | 4 | 9 | 08/08/95 | Tseung et al. | 422 | 99 | 09/23/93 | |
| | BQ | 5 | 4 | 4 | 0 | 1 | 1 | 9 | 08/08/95 | Labowsy | 250 | 282 | 03/30/94 | |
| | BR | 5 | 4 | 5 | 3 | 6 | 1 | 3 | 09/26/95 | Gray et al. | 250 | 281 | 10/21/94 | |
| | BS | 5 | 4 | 5 | 9 | 0 | 3 | 9 | 10/17/95 | Modrich et al. | 435 | 6 | 03/18/94 | |
| | BT | 5 | 4 | 9 | 8 | 5 | 4 | 5 | 03/12/96 | Vestal | 436 | 47 | 07/21/94 | |
| | BU | 5 | 5 | 0 | 3 | 9 | 8 | 0 | 04/96 | Cantor | 435 | 6 | 10/17/94 | |
| | BV | 5 | 5 | 0 | 8 | 1 | 6 | 9 | 04/16/96 | Deugau et al. | 435 | 6 | 10/28/94 | |
| | BW | 5 | 5 | 1 | 0 | 2 | 7 | 0 | 04/23/96 | Fodor et al. | 436 | 518 | 09/30/92 | |
| | BX | 5 | 5 | 1 | 2 | 2 | 9 | 5 | 04/30/96 | Kornberg et al. | 424 | 450 | 11/10/94 | |
| | BY | 5 | 5 | 1 | 2 | 4 | 3 | 9 | 04/30/96 | Hornes et al. | 435 | 6 | 07/06/94 | |
| | BZ | 5 | 5 | 1 | 4 | 5 | 4 | 8 | 05/07/96 | Krebber et al. | 435 | 6 | 02/17/94 | |
| | CA | 5 | 5 | 2 | 5 | 4 | 6 | 4 | 06/11/96 | Drmanac et al. | 435 | 6 | 02/28/94 | |
| | CB | 5 | 5 | 3 | 2 | 2 | 2 | 7 | 07/02/96 | Golub et al. | 514 | 152 | 12/21/94 | |
| | CC | 5 | 5 | 3 | 8 | 8 | 9 | 7 | 07/23/96 | Yates et al. | 436 | 89 | 03/14/94 | |
| | CD | 5 | 5 | 4 | 7 | 8 | 3 | 5 | 08/20/96 | Köster | 435 | 6 | 01/06/94 | |
| | CE | 5 | 5 | 6 | 3 | 4 | 1 | 0 | 10/08/96 | Mullock | 250 | 288 | 03/03/94 | |
| | CF | 5 | 5 | 7 | 8 | 4 | 4 | 4 | 11/26/96 | Edwards et al. | 435 | 6 | 12/20/93 | |
| | CG | 5 | 5 | 8 | 0 | 4 | 3 | 4 | 12/03/96 | Robotti et al. | 204 | 451 | 02/29/96 | |
| | CH | 5 | 5 | 8 | 0 | 7 | 3 | 3 | 12/03/96 | Levis et al. | 435 | 6 | 09/06/94 | |
| | CI | 5 | 5 | 8 | 9 | 1 | 3 | 6 | 12/31/96 | Northrup et al. | 422 | 102 | 06/20/95 | |
| ✓ | CJ | 5 | 5 | 9 | 9 | 5 | 0 | 0 | 02/04/97 | Jones | 422 | 62 | 05/10/95 | |

EXAMINER

Ruth M

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|------------------|----|-----------------|---|---|---|---|---|---|--|----------|------------------|-------|-----------|-------------|
| | CK | 5 | 6 | 0 | 1 | 9 | 8 | 2 | | 02/11/97 | Sargent et al. | 435 | 6 | 02/07/95 |
| | CL | 5 | 6 | 0 | 5 | 6 | 6 | 2 | | 02/25/97 | Heller | 422 | 68.1 | 11/01/93 |
| | CM | 5 | 6 | 0 | 5 | 7 | 9 | 8 | | 02/25/97 | Köster | 435 | 6 | 03/17/95 |
| | CN | 5 | 6 | 0 | 7 | 9 | 1 | 2 | | 03/04/97 | Samejima et al. | 510 | 411 | 09/09/92 |
| | CO | 5 | 6 | 0 | 9 | 9 | 0 | 7 | | 03/11/97 | Natan | 427 | 2.12 | 09/20/95 |
| | CP | 5 | 6 | 2 | 2 | 8 | 2 | 4 | | 04/22/97 | Köster | 435 | 6 | 02/10/95 |
| | CQ | 5 | 6 | 3 | 1 | 1 | 3 | 4 | | 05/20/97 | Cantor | 435 | 6 | 06/05/95 |
| | CR | 5 | 6 | 3 | 3 | 4 | 9 | 6 | | 05/27/97 | Sakairi et al. | 250 | 288 | 03/17/95 |
| | CS | 5 | 6 | 3 | 5 | 7 | 1 | 3 | | 06/03/97 | Labowsky | 250 | 282 | 06/16/95 |
| | CT | 5 | 6 | 4 | 3 | 8 | 0 | 0 | | 07/01/97 | Tarantino et al. | 436 | 518 | 09/21/95 |
| | CU | 5 | 6 | 5 | 0 | 4 | 8 | 9 | | 07/22/97 | Lam et al. | 530 | 334 | 06/19/91 |
| | CV | 5 | 6 | 5 | 4 | 1 | 5 | 0 | | 08/05/97 | King et al. | 435 | 6 | 06/07/95 |
| | CW | 5 | 6 | 6 | 3 | 2 | 4 | 2 | | 03/31/95 | Ghosh et al. | 525 | 329.4 | 09/02/92 |
| | CX | 5 | 6 | 6 | 5 | 9 | 6 | 7 | | 09/09/97 | Coxon et al. | 250 | 287 | 05/24/96 |
| | CY | 5 | 6 | 7 | 0 | 3 | 2 | 2 | | 09/23/97 | Eggers et al. | 435 | 6 | 06/01/95 |
| | CZ | 5 | 6 | 7 | 0 | 3 | 8 | 1 | | 09/23/97 | Jou et al. | 436 | 518 | 05/08/95 |
| | DA | 5 | 6 | 7 | 7 | 1 | 9 | 5 | | 10/14/97 | Winker et al. | 436 | 518 | 11/20/92 |
| | DB | 5 | 6 | 8 | 3 | 8 | 8 | 1 | | 11/04/97 | Skiena et al. | 435 | 6 | 10/20/95 |
| | DC | 5 | 6 | 8 | 6 | 6 | 5 | 6 | | 11/11/97 | Amirav et al. | 73 | 23.41 | 02/27/96 |
| | DD | 5 | 6 | 8 | 8 | 6 | 4 | 2 | | 11/18/97 | Chrisey et al. | 435 | 6 | 12/01/94 |
| | DE | 5 | 6 | 9 | 1 | 1 | 4 | 1 | | 11/25/97 | Köster | 435 | 6 | 06/06/95 |
| ✓ | DF | 5 | 6 | 9 | 3 | 4 | 6 | 3 | | 12/02/97 | Edwards et al. | 435 | 6 | 12/23/92 |

EXAMINER

M. L. C.

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816APPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
UnassignedO I P
LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|------------------|----|-----------------|---|---|---|---|---|---|----------|------------------|-------|-----------|-------------|
| <i>M</i> | DG | 5 | 7 | 0 | 0 | 6 | 4 | 2 | 12/23/97 | Monforte, et al. | 435 | 6 | 05/22/95 |
| | DH | 5 | 7 | 1 | 0 | 0 | 2 | 8 | 01/20/98 | Eyal et al. | 435 | 91.1 | 10/04/94 |
| | DI | 5 | 7 | 1 | 6 | 7 | 8 | 0 | 02/10/98 | Edwards et al. | 435 | 6 | 02/07/95 |
| | DJ | 5 | 7 | 1 | 6 | 8 | 2 | 5 | 02/10/98 | Hancock et al. | 435 | 286.5 | 11/01/95 |
| | DK | 5 | 7 | 2 | 3 | 3 | 2 | 0 | 03/03/98 | Dehlinger et al. | 435 | 91.1 | 08/29/95 |
| | DL | 5 | 7 | 2 | 6 | 0 | 1 | 4 | 03/10/98 | Edwards et al. | 435 | 6 | 09/17/93 |
| | DM | 5 | 7 | 3 | 8 | 9 | 9 | 0 | 04/14/98 | Edwards et al. | 435 | 6 | 06/07/95 |
| | DN | 5 | 7 | 4 | 3 | 9 | 6 | 0 | 04/28/98 | Tisone | 118 | 683 | 07/26/96 |
| | DO | 5 | 7 | 4 | 4 | 1 | 3 | 1 | 04/28/98 | Edwards et al. | 424 | 78.08 | 06/07/95 |
| | DP | 5 | 7 | 5 | 6 | 0 | 5 | 0 | 05/29/98 | Ershow et al. | 422 | 100 | 05/26/95 |
| | DQ | 5 | 7 | 5 | 9 | 7 | 7 | 9 | 06/02/98 | Dehlinger et al. | 435 | 6 | 01/11/96 |
| | DR | 5 | 7 | 6 | 3 | 2 | 6 | 3 | 06/09/98 | Dehlinger et al. | 435 | 287 | 06/24/96 |
| | DS | 5 | 7 | 7 | 0 | 2 | 7 | 2 | 06/23/98 | Biemann et al. | 427 | 421 | 04/28/95 |
| | DT | 5 | 7 | 7 | 0 | 3 | 6 | 7 | 06/23/98 | Southern et al. | 435 | 6 | 02/05/96 |
| | DU | 5 | 7 | 7 | 0 | 8 | 6 | 0 | 06/23/98 | Franzen | 250 | 288 | 07/10/97 |
| | DV | 5 | 7 | 7 | 7 | 3 | 2 | 4 | 07/07/98 | Hillenkamp | 250 | 288 | 09/19/96 |
| | DW | 5 | 7 | 8 | 9 | 3 | 9 | 5 | 04/08/98 | Abramson et al. | 514 | 152 | 08/30/96 |
| | DX | 5 | 7 | 9 | 8 | 2 | 1 | 0 | 08/25/98 | Canard et al. | 435 | 6 | 11/20/95 |
| | DY | 5 | 8 | 0 | 7 | 5 | 2 | 2 | 09/98 | Brown et al. | 422 | 50 | 06/07/95 |
| | DZ | 5 | 8 | 2 | 8 | 0 | 6 | 3 | 10/27/98 | Köster et al. | 250 | 288 | 04/02/97 |
| | EA | 5 | 8 | 3 | 0 | 6 | 5 | 5 | 11/03/98 | Monforte, et al. | 435 | 6 | 04/26/96 |
| ✓ | EB | 5 | 8 | 4 | 6 | 7 | 1 | 7 | 12/8/98 | Brow et al. | 435 | 6 | 01/24/96 |

EXAMINER

Zihua

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816O I P BOST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

NOV 20 2003

APPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|------------------|----|-----------------|---|---|---|---|---|---|--|----------|------------------|-------|-----------|-------------|
| <i>M</i> | EC | 5 | 8 | 5 | 1 | 7 | 6 | 5 | | 12/22/98 | Köster | 435 | 6 | 05/30/95 |
| | ED | 5 | 8 | 5 | 3 | 9 | 8 | 9 | | 12/29/98 | Jeffreys et al. | 435 | 6 | 05/06/96 |
| | EE | 5 | 8 | 5 | 4 | 4 | 8 | 6 | | 12/29/98 | Dreyfus | 260 | 288 | 12/27/96 |
| | EF | 5 | 8 | 6 | 4 | 1 | 3 | 7 | | 01/26/99 | Becker, et al. | 250 | 287 | 10/01/96 |
| | EG | 5 | 8 | 6 | 9 | 2 | 4 | 0 | | 02/09/99 | Patterson | 435 | 6 | 05/19/95 |
| | EH | 5 | 8 | 6 | 9 | 2 | 4 | 1 | | 02/09/99 | Edwards et al. | 435 | 6 | 06/07/95 |
| | EI | 5 | 8 | 6 | 9 | 2 | 4 | 2 | | 10/99 | Kamb | 435 | 6 | 09/18/95 |
| | EJ | 5 | 8 | 7 | 2 | 0 | 0 | 3 | | 02/16/99 | Köster | 435 | 283.1 | 05/30/95 |
| | EK | 5 | 8 | 7 | 2 | 0 | 1 | 0 | | 02/16/99 | Karger et al. | 436 | 173 | 07/03/96 |
| | EL | 5 | 8 | 8 | 5 | 7 | 7 | 5 | | 03/23/99 | Haff et al. | 435 | 6 | 10/04/96 |
| | EM | 5 | 8 | 8 | 5 | 8 | 4 | 1 | | 03/23/99 | Higgs Jr. et al. | 436 | 89 | 09/11/96 |
| | EN | 5 | 8 | 8 | 8 | 7 | 7 | 8 | | 03/30/99 | Shuber | 435 | 91.1 | 06/16/97 |
| | EO | 5 | 8 | 8 | 8 | 8 | 1 | 9 | | 03/30/99 | Goalet et al. | 435 | 5 | 03/05/91 |
| | EP | 5 | 9 | 0 | 0 | 4 | 8 | 1 | | 05/04/99 | Lough et al. | 536 | 55.3 | 11/06/96 |
| | EQ | 5 | 9 | 2 | 5 | 5 | 2 | 0 | | 07/20/99 | Tully et al. | 435 | 6 | 02/14/97 |
| | ER | 5 | 9 | 2 | 7 | 5 | 4 | 7 | | 07/27/99 | Papen et al. | 222 | 57 | 06/12/98 |
| | ES | 5 | 9 | 2 | 8 | 9 | 0 | 6 | | 07/27/99 | Köster et al. | 435 | 91.2 | 05/09/96 |
| | ET | 5 | 9 | 2 | 8 | 9 | 5 | 2 | | 07/27/99 | Hutchins et al. | 436 | 50 | 11/05/97 |
| | EU | 5 | 9 | 6 | 5 | 3 | 6 | 3 | | 10/12/99 | Monforte et al. | 435 | 6 | 12/02/96 |
| | EV | 5 | 9 | 6 | 9 | 3 | 5 | 0 | | 10/19/99 | Kerley et al. | 250 | 287 | 03/17/98 |
| | EW | 5 | 9 | 7 | 5 | 4 | 9 | 2 | | 11/02/99 | Brenes | 251 | 175 | 07/14/97 |
| | EX | 5 | 9 | 7 | 6 | 7 | 9 | 8 | | 11/02/99 | Parker et al. | 435 | 6 | 02/28/97 |

EXAMINER

Mh

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816O I P
LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

NOV 20 2003

APPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|------------------|----|-----------------|---|---|---|---|---|---|--|----------|------------------|-------|-----------|-------------|
| <i>M</i> | EY | 5 | 9 | 8 | 5 | 3 | 5 | 6 | | 11/16/99 | Schultz et al. | 427 | 8 | 10/18/94 |
| | EZ | 6 | 0 | 0 | 1 | 5 | 6 | 7 | | 12/14/99 | Brow et al. | 435 | 6 | 07/12/96 |
| | FA | 6 | 0 | 0 | 4 | 7 | 4 | 4 | | 12/21/99 | Goelett et al. | 435 | 5 | 10/11/91 |
| | FB | 6 | 0 | 0 | 6 | 1 | 7 | 1 | | 12/21/99 | Vines et al. | 702 | 184 | 07/28/97 |
| | FC | 6 | 0 | 0 | 7 | 9 | 8 | 7 | | 12/28/99 | Cantor et al. | 435 | 6 | 10/15/96 |
| | FD | 6 | 0 | 1 | 0 | 8 | 4 | 9 | | 01/04/00 | Edwards et al. | 435 | 6 | 06/07/95 |
| | FE | 6 | 0 | 1 | 7 | 6 | 9 | 3 | | 01/25/00 | Yates III et al. | 435 | 5 | 03/14/94 |
| | FF | 6 | 0 | 2 | 2 | 6 | 8 | 8 | | 02/08/00 | Jurinke et al. | 435 | 6 | 05/13/96 |
| | FG | 6 | 0 | 2 | 4 | 9 | 2 | 5 | | 02/15/00 | Little et al. | 422 | 100 | 01/23/97 |
| | FH | 6 | 0 | 2 | 5 | 1 | 9 | 3 | | 02/15/00 | Weiss | 435 | 320.1 | 03/14/97 |
| | FI | 6 | 0 | 2 | 7 | 8 | 9 | 0 | | 02/22/00 | Ness et al. | 435 | 6 | 07/22/97 |
| | FJ | 6 | 0 | 4 | 0 | 1 | 9 | 3 | | 03/21/00 | Winkler et al. | 436 | 180 | 08/04/98 |
| | FK | 6 | 0 | 4 | 3 | 0 | 3 | 1 | | 03/28/00 | Köster et al. | 435 | 6 | 03/18/96 |
| | FL | 6 | 0 | 5 | 1 | 3 | 7 | 8 | | 04/18/00 | Monforte et al. | 435 | 6 | 03/04/97 |
| | FM | 6 | 0 | 6 | 0 | 0 | 2 | 2 | | 05/09/00 | Pang et al. | 422 | 65 | 07/03/97 |
| | FN | 6 | 0 | 7 | 4 | 8 | 2 | 3 | | 06/13/00 | Köster | 435 | 6 | 11/06/96 |
| | FO | 6 | 0 | 9 | 0 | 5 | 5 | 8 | | 07/18/00 | Butler et al. | 435 | 6 | 09/18/98 |
| | FP | 6 | 1 | 0 | 4 | 0 | 2 | 8 | | 08/15/00 | Hunter et al. | 250 | 288 | 05/29/98 |
| | FQ | 6 | 1 | 1 | 0 | 4 | 2 | 6 | | 08/29/00 | Shalon et al. | 422 | 68.1 | 12/30/97 |
| | FR | 6 | 1 | 1 | 1 | 2 | 5 | 1 | | 08/29/00 | Hillenkamp | 250 | 288 | 09/19/97 |
| | FS | 6 | 1 | 2 | 1 | 0 | 4 | 8 | | 09/19/00 | Zaffaroni et al. | 436 | 45 | 10/18/94 |
| | FT | 6 | 1 | 2 | 4 | 1 | 2 | 9 | | 09/26/00 | Szafranski | 435 | 252.33 | 02/06/98 |

EXAMINER

John M

DATE CONSIDERED

1/15/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|------------------|----|-----------------|---|---|---|---|---|---|----------|------------------------|-------|-----------|-------------|
| <i>M</i> | FU | 6 | 1 | 3 | 2 | 6 | 8 | 5 | 10/17/00 | Kercso et al. | 422 | 104 | 08/10/98 |
| | FV | 6 | 1 | 3 | 3 | 4 | 3 | 6 | 10/17/00 | Köster et al. | 536 | 24.3 | 09/19/97 |
| | FW | 6 | 1 | 3 | 6 | 2 | 6 | 9 | 10/24/00 | Winkler et al. | 422 | 61 | 04/21/95 |
| | FX | 6 | 1 | 4 | 0 | 0 | 4 | 5 | 10/31/00 | Wohlstadter et al. | 435 | 6 | 03/06/97 |
| | FY | 6 | 1 | 4 | 0 | 0 | 5 | 3 | 10/31/00 | Köster | 435 | 6 | 09/25/98 |
| | FZ | 6 | 1 | 4 | 6 | 8 | 5 | 4 | 11/14/00 | Köster et al. | 435 | 1.1 | 08/31/95 |
| | GA | 6 | 1 | 4 | 7 | 3 | 4 | 4 | 11/14/00 | Annis et al. | 250 | 281 | 01/19/99 |
| | GB | 6 | 1 | 8 | 8 | 0 | 6 | 4 | 02/13/01 | Köster | 250 | 282 | 01/28/99 |
| | GC | 6 | 1 | 9 | 4 | 1 | 4 | 4 | 02/27/01 | Koster | 435 | 6 | 03/18/96 |
| | GD | 6 | 1 | 9 | 7 | 4 | 9 | 8 | 03/06/01 | Koster | 435 | 5 | 3/17/95 |
| | GE | 6 | 2 | 0 | 7 | 3 | 7 | 0 | 03/27/01 | Little et al. | 435 | 6 | 09/02/97 |
| | GF | 6 | 2 | 0 | 7 | 3 | 9 | 0 | 03/27/01 | Cantor et al. | 435 | 7.1 | 10/03/97 |
| | GG | 6 | 2 | 1 | 4 | 5 | 5 | 1 | 04/10/01 | Sanghvi et al. | 435 | 6 | 07/27/98 |
| | GH | 6 | 2 | 2 | 1 | 6 | 0 | 1 | 04/24/01 | Köster et al. | 435 | 6 | 11/02/99 |
| | GI | 6 | 2 | 2 | 1 | 6 | 0 | 5 | 04/24/01 | Köster | 435 | 6 | 02/15/00 |
| | GJ | 6 | 2 | 2 | 5 | 0 | 6 | 1 | 05/01/01 | Becker, Köster, Cantor | 435 | 6 | 03/10/99 |
| | GK | 6 | 2 | 2 | 5 | 4 | 5 | 0 | 05/01/01 | Köster | 536 | 22.1 | 06/07/95 |
| | GL | 6 | 2 | 3 | 2 | 0 | 7 | 6 | 05/15/01 | Schulz | 435 | 6 | 02/04/00 |
| | GM | 6 | 2 | 3 | 5 | 4 | 7 | 8 | 05/22/01 | Köster | 435 | 6 | 04/06/99 |
| | GN | 6 | 2 | 3 | 8 | 8 | 7 | 1 | 05/29/01 | Köster | 435 | 6 | 05/08/00 |
| | GO | 6 | 2 | 5 | 8 | 5 | 3 | 8 | 07/10/01 | Köster | 435 | 6 | 04/06/99 |
| ▼ | GP | 6 | 2 | 6 | 5 | 7 | 1 | 6 | 07/24/01 | Hunter et al. | 250 | 288 | 02/29/00 |

EXAMINER

Julia

DATE CONSIDERED

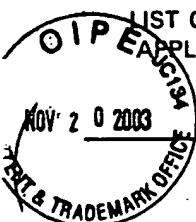
1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|------------------|----|-----------------|---|---|---|---|---|---|----------|-------------------|-------|-----------|-------------|
| <i>M</i> | GQ | 6 | 2 | 6 | 8 | 1 | 3 | 1 | 07/31/01 | Kang et al. | 435 | 6 | 12/15/97 |
| | GR | 6 | 2 | 6 | 8 | 1 | 4 | 4 | 07/31/01 | Köster | 435 | 6 | 09/15/99 |
| | GS | 6 | 2 | 7 | 0 | 8 | 3 | 5 | 08/07/01 | Hunt et al. | 427 | 79 | 10/07/99 |
| | GT | 6 | 2 | 7 | 7 | 5 | 7 | 3 | 08/21/01 | Köster | 435 | 6 | 4/6/99 |
| | GU | 6 | 2 | 8 | 4 | 4 | 9 | 7 | 09/04/01 | Cantor et al. | 435 | 91.2 | 04/08/99 |
| | GV | 6 | 2 | 8 | 7 | 8 | 4 | 4 | 09/11/01 | Szafranski et al. | 435 | 252.33 | 02/06/98 |
| | GW | 6 | 3 | 0 | 0 | 0 | 7 | 6 | 10/09/01 | Köster | 435 | 6 | 01/31/00 |
| | GX | 6 | 3 | 0 | 3 | 3 | 0 | 9 | 10/16/01 | Jurinke et al. | 435 | 6 | 06/21/99 |
| ↓ | GY | 6 | 3 | 2 | 2 | 9 | 7 | 0 | 11/27/01 | Little et al. | 435 | 6 | 09/02/98 |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | | | | | | | DATE | COUNTRY | CLASS | SUB CLASS | Translation Yes No |
|----------|----|-----------------|---|---|---|---|---|---|----------|---------|-------|-----------|-----------------------|
| <i>M</i> | GZ | 0 | 0 | 5 | 1 | 0 | 5 | 3 | 08/31/00 | PCT | | | |
| | HA | 0 | 0 | 5 | 6 | 4 | 4 | 6 | 9/28/00 | PCT | | | |
| | HB | 0 | 0 | 6 | 0 | 3 | 6 | 1 | 10/12/00 | PCT | | | |
| | HC | 0 | 1 | 7 | 5 | 4 | 6 | 7 | 03/26/86 | EP | | | |
| | HD | 0 | 1 | 9 | 6 | 6 | 0 | 7 | 12/20/01 | PCT | | | |
| | HE | 0 | 3 | 6 | 0 | 6 | 7 | 6 | 03/28/90 | EP | | | X* |
| | HF | 0 | 5 | 4 | 3 | 5 | 5 | 0 | 05/26/93 | EP A1 | | | |
| | HG | 0 | 5 | 9 | 3 | 7 | 8 | 9 | 04/27/94 | EP (A1) | | | |
| ↓ | HH | 0 | 5 | 9 | 6 | 2 | 0 | 5 | 05/11/94 | EP | | | |
| | HI | 0 | 6 | 8 | 3 | 2 | 3 | 4 | 11/22/95 | EP | | | |

EXAMINER

Julia

DATE CONSIDERED

1/15/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816APPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | | | | | | | | DATE | COUNTRY | CLASS | SUB CLASS | Translation Yes | Translation No |
|---|----|-----------------|---|---|---|---|---|----|----------|---------|---------|-------|-----------|--------------------|-------------------|
| | HJ | 0 | 7 | 7 | 1 | 0 | 1 | 9 | 05/02/97 | EP | | | | | |
| | HK | 0 | 8 | 2 | 8 | 8 | 5 | 5 | 12/15/99 | EP | | | | | |
| | HL | 1 | 9 | 6 | 1 | 7 | 0 | 11 | 04/27/96 | DE | | | | X+ | |
| | HM | 1 | 9 | 6 | 1 | 8 | 0 | 32 | 05/04/96 | DE | | | | X+ | |
| | HN | 1 | 9 | 6 | 2 | 8 | 1 | 78 | 07/12/96 | DE | | | | X* | |
| | HO | 1 | 9 | 7 | 3 | 1 | 4 | 79 | 08/06/98 | DE A1 | | | | X* | |
| | HP | 1 | 9 | 7 | 5 | 4 | 9 | 78 | 12/11/97 | DE | | | | X+ | |
| | HQ | 2 | 0 | 1 | 7 | 1 | 0 | 5 | 03/20/79 | UK | | | | | |
| | HR | 2 | 2 | 1 | 5 | 3 | 9 | 9 | 08/28/90 | JP | | | | X* | |
| | HS | 2 | 2 | 3 | 3 | 6 | 5 | 4 | 01/16/91 | GB | | | | | |
| | HT | 2 | 2 | 6 | 0 | 8 | 1 | 1 | 04/28/93 | GB (A) | | | | | |
| | HU | 2 | 3 | 1 | 2 | 7 | 8 | 2 | 11/05/97 | UK | | | | | |
| | HV | 2 | 3 | 3 | 2 | 2 | 7 | 3 | 06/16/99 | UK | | | | | |
| | HW | 2 | 5 | 9 | 7 | 2 | 6 | 0 | 05/02/91 | FR | | | X | | |
| | HX | 2 | 7 | 4 | 9 | 6 | 6 | 2 | 11/06/96 | FR | | | | X* | |
| | HY | 3 | 2 | 2 | 1 | 6 | 8 | 1 | 12/08/83 | DE | | | X | | |
| | HZ | 4 | 1 | 7 | 8 | 3 | 5 | 9 | 06/25/92 | JP A | | | | X* | |
| | IA | 4 | 4 | 3 | 1 | 1 | 7 | 4 | 03/07/96 | DE (A1) | | | | X* | |
| | IB | 4 | 4 | 3 | 8 | 6 | 3 | 0 | 05/02/96 | DE (A1) | | | | X* | |
| | IC | 6 | 3 | 2 | 3 | 0 | 0 | 88 | 09/26/88 | JP | | | | X* | |
| | ID | 8 | 5 | 0 | 2 | 9 | 0 | 7 | 07/04/85 | PCT | | | | | |
| ↓ | IE | 8 | 9 | 0 | 3 | 4 | 3 | 2 | 04/20/89 | BCT | | | | | |

EXAMINER

Mark C

DATE CONSIDERED

1/15/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816O I P
LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

NOV 20 2003

APPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | | | | | | | DATE | COUNTRY | CLASS | SUB CLASS | Translation Yes | Translation No |
|----------|----|-----------------|---|---|---|---|---|---|----------|---------|-------|-----------|--------------------|-------------------|
| <i>m</i> | IF | 8 | 9 | 0 | 6 | 7 | 0 | 0 | 07/27/89 | PCT | | | | |
| | IG | 8 | 9 | 1 | 2 | 6 | 2 | 4 | 12/28/89 | PCT | | | | |
| | IH | 8 | 9 | 1 | 2 | 6 | 9 | 4 | 12/28/89 | PCT | | | | |
| | II | 9 | 0 | 0 | 1 | 5 | 6 | 4 | 02/22/90 | PCT | | | | |
| | IJ | 9 | 1 | 1 | 1 | 5 | 3 | 3 | 01/10/91 | PCT | | | | |
| | IK | 9 | 1 | 1 | 5 | 6 | 0 | 0 | 10/17/91 | PCT | | | | |
| | IL | 9 | 2 | 0 | 5 | 2 | 8 | 7 | 04/02/92 | PCT | | | | |
| | IM | 9 | 3 | 0 | 9 | 6 | 6 | 8 | 05/27/93 | PCT | | | | |
| | IN | 9 | 3 | 1 | 5 | 4 | 0 | 7 | 08/05/93 | PCT | | | | |
| | IO | 9 | 3 | 2 | 3 | 5 | 6 | 3 | 11/25/93 | PCT | | | | |
| | IP | 9 | 3 | 2 | 4 | 8 | 3 | 4 | 12/09/93 | PCT | | | | |
| | IQ | 9 | 4 | 1 | 6 | 1 | 0 | 1 | 07/21/94 | PCT | | | | |
| | IR | 9 | 4 | 2 | 0 | 9 | 7 | 8 | 09/15/94 | PCT | | | | |
| | IS | 9 | 4 | 2 | 1 | 8 | 2 | 2 | 09/29/94 | PCT | | | | |
| | IT | 9 | 4 | 2 | 7 | 7 | 1 | 9 | 11/16/95 | PCT | | | | |
| | IU | 9 | 4 | 2 | 8 | 4 | 1 | 8 | 12/08/94 | PCT | | | | |
| | IV | 9 | 5 | 0 | 4 | 1 | 6 | 0 | 09/20/95 | PCT | | | | |
| | IW | 9 | 5 | 0 | 7 | 3 | 6 | 1 | 03/16/95 | PCT | | | | X* |
| | IX | 9 | 5 | 1 | 3 | 3 | 8 | 1 | 05/18/95 | PCT | | | | |
| | IY | 9 | 5 | 1 | 3 | 5 | 3 | 8 | 05/18/95 | PCT | | | | |
| | IZ | 9 | 5 | 1 | 5 | 4 | 0 | 0 | 06/08/95 | PCT | | | | |
| <i>v</i> | JA | 9 | 5 | 2 | 5 | 7 | 3 | 7 | 09/28/95 | PCT | | | | |

EXAMINER

John

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY
MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

NOV 20 2003

U.S. TRADEMARK OFFICE

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | | | | | | | | DATE | COUNTRY | CLASS | SUB CLASS | Translation Yes | Translation No |
|--|----|-----------------|---|---|---|---|---|---|----------|------|---------|-------|-----------|--------------------|-------------------|
| | JB | 9 | 5 | 3 | 1 | 4 | 2 | 9 | 11/23/95 | PCT | | | | | |
| | JC | 9 | 5 | 3 | 5 | 5 | 0 | 5 | 12/28/95 | PCT | | | | | |
| | JD | 9 | 6 | 1 | 0 | 6 | 4 | 8 | 04/11/96 | PCT | | | | | |
| | JE | 9 | 6 | 1 | 4 | 4 | 0 | 6 | 05/17/96 | PCT | | | | | |
| | JF | 9 | 6 | 1 | 5 | 2 | 6 | 2 | 05/23/96 | PCT | | | | | |
| | JG | 9 | 6 | 1 | 7 | 0 | 8 | 0 | 06/06/96 | PCT | | | | | |
| | JH | 9 | 6 | 2 | 1 | 0 | 4 | 2 | 07/11/96 | PCT | | | | | |
| | JI | 9 | 6 | 2 | 9 | 4 | 3 | 1 | 09/26/96 | PCT | | | | | |
| | JJ | 9 | 6 | 3 | 0 | 5 | 4 | 5 | 10/03/96 | PCT | | | | | |
| | JK | 9 | 6 | 3 | 2 | 5 | 0 | 4 | 10/17/96 | PCT | | | | | |
| | JL | 9 | 6 | 3 | 6 | 9 | 8 | 7 | 11/21/96 | PCT | | | | | |
| | JM | 9 | 6 | 3 | 7 | 6 | 3 | 0 | 11/28/96 | PCT | | | | | |
| | JN | 9 | 7 | 0 | 8 | 3 | 0 | 6 | 03/06/97 | PCT | | | | | |
| | JO | 9 | 7 | 1 | 9 | 1 | 1 | 0 | 05/29/97 | PCT | | | | | |
| | JP | 9 | 7 | 3 | 3 | 0 | 0 | 0 | 09/12/97 | PCT | | | | | |
| | JQ | 9 | 7 | 3 | 7 | 0 | 4 | 1 | 10/09/97 | PCT | | | | | |
| | JR | 9 | 7 | 4 | 0 | 4 | 6 | 2 | 10/30/97 | PCT | | | | | |
| | JS | 9 | 7 | 4 | 2 | 3 | 4 | 8 | 11/13/97 | PCT | | | | | |
| | JT | 9 | 7 | 4 | 3 | 6 | 1 | 7 | 11/20/97 | PCT | | | | | |
| | JU | 9 | 8 | 0 | 3 | 2 | 5 | 7 | 01/18/98 | PCT | | | | X | |
| | JV | 9 | 8 | 1 | 1 | 2 | 4 | 9 | 03/19/98 | PCT | | | | | |
| | JW | 9 | 8 | 1 | 2 | 3 | 5 | 5 | 03/26/98 | PCT | | | | | |

EXAMINER

John C.

DATE CONSIDERED

1/15/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY
MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816OIA
LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | | | | | | | | DATE | COUNTRY | CLASS | SUB CLASS | Translation Yes | No |
|--|----|-----------------|---|---|---|---|---|---|--|----------|---------|-------|-----------|-----------------|----|
| | JX | 9 | 8 | 1 | 2 | 7 | 3 | 4 | | 03/26/98 | PCT | | | | |
| | JY | 9 | 8 | 1 | 4 | 9 | 8 | 2 | | 04/09/98 | PCT | | | | |
| | JZ | 9 | 8 | 2 | 0 | 0 | 1 | 9 | | 05/14/98 | PCT | | | | |
| | KA | 9 | 8 | 2 | 0 | 0 | 2 | 0 | | 05/14/98 | PCT | | | | |
| | KB | 9 | 8 | 2 | 0 | 1 | 6 | 6 | | 05/14/98 | PCT | | | | |
| | KC | 9 | 8 | 2 | 3 | 2 | 8 | 4 | | 06/04/98 | PCT | | | | |
| | KD | 9 | 8 | 2 | 4 | 9 | 3 | 5 | | 11/06/98 | PCT | | | | |
| | KE | 9 | 8 | 2 | 6 | 0 | 9 | 5 | | 06/18/98 | PCT | | | | |
| | KF | 9 | 8 | 3 | 3 | 0 | 5 | 2 | | 07/30/98 | PCT | | | | |
| | KG | 9 | 8 | 3 | 3 | 8 | 0 | 8 | | 08/06/98 | PCT | | | | |
| | KH | 9 | 8 | 3 | 5 | 6 | 0 | 9 | | 08/20/98 | PCT | | | | |
| | KI | 9 | 8 | 5 | 4 | 7 | 5 | 1 | | 12/03/98 | PCT | | | | |
| | KJ | 9 | 9 | 0 | 5 | 3 | 2 | 3 | | 02/04/99 | PCT | | | | |
| | KK | 9 | 9 | 1 | 2 | 0 | 4 | 0 | | 03/11/99 | PCT | | | | |
| | KL | 9 | 9 | 1 | 4 | 3 | 6 | 2 | | 03/25/99 | PCT | | | | |
| | KM | 9 | 9 | 3 | 1 | 2 | 7 | 3 | | 06/24/99 | PCT | | | | |
| | KN | 9 | 9 | 3 | 1 | 2 | 7 | 8 | | 06/24/99 | PCT | | | | |
| | KO | 9 | 9 | 5 | 5 | 7 | 1 | 8 | | 11/04/99 | PCT | | | | |
| | KP | 9 | 9 | 5 | 7 | 3 | 1 | 8 | | 11/11/99 | PCT | | | | |

* An English Derivation Abstract is provided.

+ An English Equivalent Patent is provided.

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



| | | | |
|---|--|---------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | | ATTY. DOCKET NO. 25491-2408B | SERIAL NO. 10/645,816 |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT | | APPLICANT CANTOR et al. | |
| | | FILING DATE August 20, 2003 | GROUP Unassigned |

| | | |
|----------|----|--|
| <i>M</i> | KQ | "Invitation To Pay Additional Fees" with Partial International Search Report for International Application PCT/US 01/19249, dated November 11, 2002. |
| | KR | Aberth <i>et al.</i> , "Secondary Ion Mass Spectrometry with Cesium Ion Primary Beam and Liquid Target Matrix for Analysis of Bioorganic Compounds", <i>Anal. Chem.</i> 54:2029-2034 (1982) |
| | KS | Adler <i>et al.</i> , "Cell Membrane Coating with Glutaraldehyde: Application to a Versatile Solid-Phase Assay for Thyroid Membrane Proteins and Molecules Interacting with Thyroid Membranes", <i>Anal. Biochem.</i> , 148:320-327 (1985) |
| | KT | Bai <i>et al.</i> , "Matrix-assisted Laser Desorption/Ionization Mass Spectrometry of Restriction Enzyme-digested Plasmid DNA Using an Active Nafion Substrate", <i>Rapid Comm. Mass Spec.</i> 8:687-691 (1994) |
| | KU | Bains <i>et al.</i> , "A Novel Method For Nucleic Acid Sequence Determination", <i>J. Theor Biol.</i> , 135:303-307 (1988) |
| | KV | Bannwarth, W., "Solid-Phase Synthesis of Oligodeoxynucleotides Containing Phosphoramidate Internucleotide Linkages and their Specific Chemical Cleavage", <i>Helvetica Chimica Acta</i> , 71:1517-1527, (1988) |
| | KW | Batista-Viera <i>et al.</i> , "A New Method for Reversible Immobilization of Thiol Biomolecules Based on Solid-Phase Bound Thiolsulfonate Groups", <i>App. Biochem. Biotech.</i> , 31:175-195 (1991) |
| | KX | Belanger <i>et al.</i> , "Molecular Mass and Carbohydrate Structure of Prostate Specific Antigen: Studies for Establishment of an International PSA Standard", <i>Prostate</i> 27(4):187-197 (1995) |
| | KY | Benner <i>et al.</i> , "DNA Base-Pair Substitutions Detected in Double-Stranded DNA with Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry", <i>Eur. Mass Spectrom.</i> , 1:479-485 (1995) |
| | KZ | Berkenkamp <i>et al.</i> , "Performance of Infrared Matrix-assisted Laser Desorption/Ionization Mass Spectrometry with Lasers Emitting in the 3 μ m Wavelength Range", <i>Rapid Comm. Mass Spec.</i> , 11:1399-1406 (1997) |
| <i>↓</i> | LA | Börnsen <i>et al.</i> , "Influence of Solvents and Detergents on Matrix-assisted Laser Desorption/Ionization Mass Spectrometry Measurements of Proteins and Oligonucleotides", <i>Rapid Comm. Mass Spec.</i> , 11:603-609 (1997) |
| | LB | Broccoli <i>et al.</i> , "Telomerase Activity in Normal and Malignant Hematopoietic Cells", <i>Proc. Nat'l. Acad. Sci. U.S.A.</i> , 92:9082-9086 (1995) |

EXAMINER

Milca

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

| | | |
|----------|----|--|
| <i>u</i> | LC | Broude et al., "Enhanced DNA Sequencing By Hybridization", <i>Proc. Natl. Acad. Sci. USA</i> , <u>91</u> :3072-3076 (1994) |
| | LD | Brown et al., "Mass Resolution Improvement by Incorporation of Pulsed Ion Extraction in a Matrix-Assisted Laser Desorption/Ionization Linear Time-of-Flight Mass Spectrometer", <i>Anal. Chem.</i> , <u>67</u> :1998-2003 (1995) |
| | LE | Burlingame et al., "Mass Spectrometry", <i>Anal. Chem.</i> , <u>70</u> :647R-716R (1998) |
| | LF | Busch et al., "Mass Spectrometry of Large, Fragile, and Involatile Molecules", <i>Science</i> , <u>218</u> :247-254 (1982) |
| | LG | Certified English translation of the German Patent Application DE 3221681, "Mass spectrometer with an extrenal sample holder." |
| | LH | Certified English translation of the PCT Patent Application WO 98/03257, "Solid supports for analytical measurement methods, their production and their use." |
| | LI | Certified English translation of the French Patent Application FR 2597260, "A process for automatic direct introduction of samples into a mass spectrometer and a device for implementing this process." |
| | LJ | Certified English translation of the Russian article: Elov et al. "RNA Synthesis by Use of T7 RNA Polymerase and Immobilized DNA in a Flowing-type Reactor", <i>Bioorganicheskaya Khimiya</i> <u>17</u> (6):789-794 (1999) |
| | LK | Ch'ang et al., "Detection of ΔF508 Mutation of the Cystic Fibrosis Gene by Matrix-assisted Laser Desorption/Ionization Mass Spectrometry", <i>Rapid Comm. in Mass Spectrom.</i> , <u>9</u> :772-774 (1995) |
| | LL | Chait et al., "Weighing Naked Proteins: Practical, High-Accuracy Mass Measurement of Peptides and Proteins", <i>Science</i> , <u>257</u> :1885-1894 (1992) |
| | LM | Chan et al., "OMS Letters", <i>Org. Mass Spec.</i> , <u>27</u> :53-56 (1992) |
| | LN | Chee, "Enzymatic Multiplex DNA Sequencing," <i>Nucl. Acids Res.</i> <u>19</u> (12):3301-3305 (1991) |
| | LO | Chee et al., "Accessing Genetic Information with High-Density DNA Arrays", <i>Science</i> , <u>274</u> :610 (1996) |
| <i>↓</i> | LP | Chen et al., "Stable-Isotope-Assisted MALDI-TOF Mass Spectrometry for Accurate Determination of Nucleotide Compositions of PCR Products", <i>Anal. Chem.</i> <u>71</u> (15):3118-3125 (1999). |

EXAMINER

Julie

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

| | | |
|----------|----|---|
| <i>u</i> | LQ | Church et al., "Multiplex DNA Sequencing," <i>Science</i> , <u>240</u> :185-188 (1988) |
| | LR | Collins et al., "A DNA Polymorphism Discovery Resource for Research on Human Genetic Variation", <i>Genome Res.</i> , <u>8</u> :1229-1231 (1998) |
| | LS | Cornett et al., "Liquid Mixtures for Matrix-Assisted Laser Desorption", <i>Anal. Chem.</i> , <u>65</u> :2608-2613 (1993) |
| | LT | Cosstick et al., "Synthesis and Properties of Dithymidine Phosphate Analogues Containing 3'-thiothymidine", <i>Nucl. Acid Res.</i> , <u>18</u> :829-835 (1990) |
| | LU | Crain et al., "Applications of Mass Spectrometry to the Characterization of Oligonucleotides and Nucleic Acids", <i>Curr. Opin. Biotech.</i> , <u>9</u> :25-34 (1998) |
| | LV | Dale et al., "Graphite/Liquid Mixed Matrices for Laser Desorption/Ionization Mass Spectrometry", <i>Anal. Chem.</i> , <u>68</u> :3321-3329 (1996) |
| | LW | Dass et al., "Particle Beam Induced Reactions between Peptides and Liquid Matrices", <i>Anal. Chem.</i> , <u>60</u> :2723-2729 (1988) |
| | LX | Derwent# 009135586, WPI Acc No. 1992-263024, citing Japanese Patent JP 4178359 A, "New anti-inflammatory tetracycline derivs. - for treating articular rheumatism, osteoarthritis, Reiter's syndrome, Lyme disease, etc." |
| | LY | Derwent# 008415766, WPI Acc. No. 90-302767/199040, citing Japanese Patent Number JP 2215399 A, "Method for detecting DNA - includes denaturing to single strand, combining with DNA primer having corresp. base sequence forming replicator etc." |
| | LZ | Derwent# 011458787, WPI Acc. No. 1997-436694/199741, citing German Patent Number DE 19628178 C, "Loading matrix-assisted laser desorption-ionisation sample plate for mass spectrometric analysis - using simple multi-pipette to prepare tens of thousands of samples rapidly and reliably for e.g. biochemical and genetic investigations optionally using electrophoretic concentration and delivery technique." |
| | MA | Derwent# 010725941, WPI Acc. No. 1996-222896/199623, citing German Patent Number DE 4438630 A, "Amplification of non-characterized DNA fragments-using only a single primer, with formation of hairpin loops during a second strand synthesis." |
| | MB | Derwent# 010643408, WPI Acc. No. 1996-140362/199615, citing German Patent DE 4431174 A, "Detecting tumour specific mRNA by conversion to cDNA and amplification - provides early, sensitive and specific diagnosis and monitoring, partic. by analysis of blood or sputum." |

EXAMINER

Richie

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



| | | | |
|---|--|---------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | | ATTY. DOCKET NO. 25491-2408B | SERIAL NO. 10/645,816 |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT | | APPLICANT CANTOR et al. | |
| | | FILING DATE August 20, 2003 | GROUP Unassigned |

| | | |
|----------|----|---|
| <i>u</i> | MC | Derwent# 010222178, WPI Acc. No. 95-123433/199516, citing PCT Patent Application WO 9507361 A, "Detecting presence and position of mutation(s) in double stranded DNA -by amplification, labelling strands with different markers, hybridisation and detecting heteroduplex by cleavage of unpaired strands." |
| | MD | Derwent# 011635345, WPI Acc. No. 1998-052473/199805, citing French Patent Number FR 2749662 A, "Automatic laboratory for analysing samples -has robot and analysers in one chamber connected by sample transfer conveyors to second chamber with human operator access." |
| | ME | Derwent# 008221915, WPI Acc. No. 90-108916/199015, citing European Patent Application EP 0360676 A, "Size analysis of biological mol. fragments -by mass spectrometry, esp. in nucleic acid sequencing." |
| | MF | Derwent# 012012061, WPI Acc. No. 1998-428971/199837, citing German Patent Number DE 19731479 A, "Device for analysis of target chemicals has light emitting array -with chemical binder elements attached to capture target chemicals which change emitted light pattern accordingly." |
| | MG | Derwent# 007678032, WPI Acc No. 88-311964/198844, citing Japanese Patent Application JP 63230086 A, "Carrier immobilising physiological active substance - comprises binding chain-form disulphide cpd. via epoxy gp. with latex contg. polymer particles." |
| | MH | Drmanac et al., "Sequencing Of Megabase Plus DNA By Hybridization: Theory Of The Method", <i>Genomics</i> , 4:114-128 (1989) |
| | MI | Drmanac et al., "DNA Sequence Determination by Hybridization: A Strategy For Efficient Large-Scale Sequencing", <i>Science</i> , 260:1649-1652 (1993) |
| | MJ | Duchateau et al., "Selection of buffers and of an ion-pairing agent for thermospray liquid chromatographic-mass spectrometric analysis of ionic compounds", <i>J. Chromatogr</i> , 552:605-612 (1991) |
| | MK | Eckstein, F., (Ed.). "Oligonucleotides and Analogues: A Practical Approach", <i>Oxford University Press</i> , 56-57, 137-139, 256-259, (1991) |
| | ML | Elov et al., "Synthesis of RNA using T7 RNA polymerase and immobilized DNA in a stream type reactor", <i>Bioorganicheskaiia Khimiia</i> , 17(6):789-794 (1999) |
| <i>v</i> | MM | Fabris et al., "Massive Cluster Impact Ionization on a Four Sector Tandem Mass Spectrometer", <i>J. Mass Spec.</i> , 30:140-143 (1995) |

EXAMINER

John C.

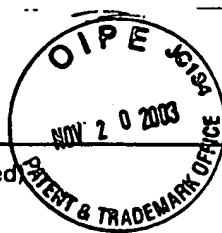
DATE CONSIDERED

1/1/2004

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



| | | |
|---|---------------------------------|--------------------------|
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO. 25491-2408B | SERIAL NO. 10/645,816 |
| | APPLICANT CANTOR et al. | |
| | FILING DATE August 20, 2003 | GROUP Unassigned |

| | | |
|----------|----|--|
| <i>M</i> | MN | Feng <i>et al.</i> , "The RNA Component of Human Telomerase", <i>Science</i> , <u>269</u> (5228):1236-1241 (1995) |
| | MO | Fitzgerald <i>et al.</i> , "Basic Matrices for the Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry of Proteins and Oligonucleotides," <i>Analytical Chemistry</i> <u>65</u> : 3204-3211 (1993) |
| | MP | Foster, <i>et al.</i> , "Naming Names in Human Genetic Variation Research", <i>Genome Res.</i> , <u>8</u> :755-757 (1998) |
| | MQ | Frohman, M., "Cloning PCR Products" Chapter 12 in <i>The Polymerase Chain Reaction</i> , Mullis <i>et al.</i> , (Eds.), Birkhauser, Boston, pp. 14-37 (1994) |
| | MR | George <i>et al.</i> , "Current Methods in Sequence Comparison and Analysis," Chapter 12 of: Macromolecular Sequencing and Synthesis, <i>Selected Methods and Applications</i> , Schlesinger (Ed.), 127-149 (1988) |
| | MS | Gross <i>et al.</i> "Matrix-assisted laser desorption/ionisation-mass spectrometry applied to biological macromolecules" <i>Trends in Analytical Chem.</i> V <u>17</u> (8-9) pp.470-484 (1998). |
| | MT | Grotjahn, L., "Oligonucleotide Sputtering from Liquid Matrices", <i>Springer Proc. Phys.</i> , <u>9</u> :118-125 (1986) |
| | MU | Grotjahn, L., "Sequencing of Oligodeoxyribonucleotides by Negative FAB - MS", <i>Int. J. Mass Spec. Ion Phys.</i> , <u>46</u> :439-442 (1983) |
| | MV | Haag <i>et al.</i> , "Rapid Identification and Speciation of Haemophilus Bacteria by Matrix-assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry", <i>J. Mass Spec.</i> , <u>33</u> (8):750-756 (1998) |
| | MW | Hacia <i>et al.</i> , "Detection of Heterozygous Mutations in BRCA1 Using High Density Oligonucleotide Arrays and Two-Colour Fluorescence Analysis", <i>Nature Genetics</i> , <u>14</u> :441-447 (1996) |
| | MX | Harada <i>et al.</i> , "Diethanolamine Assisted Secondary Ion Mass Spectrometry of Naturally Occurring Complex Oligosaccharides", <i>Org. Mass Spec.</i> , <u>17</u> (8):386-391 (1982) |
| | MY | Herpich <i>et al.</i> , "HPLC of Nucleic Acid Components with Volatile Mobile Phases 1. Fast Nucleotide Separators Using Ammonium Carbonate and Ammonium Bicarbonate Gradients", <i>J. High Resolut. Chromatogr.</i> , <u>15</u> :41-42 (1992) |
| <i>↓</i> | MZ | Hinton <i>et al.</i> , "The Application of Robotics to Fluorometric and Isotopic Analyses of Uranium", <i>Chemometrics and Intelligent Laboratory Systems: Laboratory Info. Management</i> , <u>21</u> :223-227 (1993) |

EXAMINER *John M* DATE CONSIDERED *1/7/2007*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

| | | |
|----------|----|---|
| <i>m</i> | NA | Hunter et al., "Frozen-solution MALDI Mass Spectrometry Studies of DNA", <i>Proc SPIE-Int Soc. Opt. Eng.</i> , <u>2680</u> :384-389 (1996) |
| | NB | Jacobson et al., "Applications of Mass Spectrometry to DNA Sequencing", <i>GATA</i> , <u>8</u> (8):223-229 (1991) |
| | NC | Jacutin et al. "Test of the potential of a dATP surrogate for sequencing via MALDI-MS" <i>Nucleic Acid Research</i> V.25(24) pp.5072-5076 (1997) |
| | ND | Ji et al., "Two-dimensional Electrophoretic Analysis of Proteins Expressed by Normal and Cancerous Human Crypts: Application of Mass Spectrometry to Peptide-mass Fingerprinting", <i>Electrophoresis</i> , <u>15</u> :391-405 (1994) |
| | NE | Jiang et al., "The Liquid Matrix Effects for Determining Ionization of Oligonucleotides by LSIMS", <i>Chin Sci. Bull.</i> , <u>37</u> (17):1431-1435 (1992) |
| | NF | Jonkman et al., "Low-temperature Positive Secondary Ion Mass Spectrometry of Neat and Argon-Diluted Organic Solids", <i>Anal. Chem.</i> , <u>50</u> (14):2078-2082 (1978) |
| | NG | Kambara, H., "Characteristics of Molecular Secondary Ion Mass Spectrometry", <i>Springer Ser. Chem. Phys.</i> , <u>36</u> :357-362 (1984) |
| | NH | Khrapko et al., "A Method for DNA Sequencing by Hybridization with Oligonucleotide Matrix", <i>J. DNA Sequencing and Mapping</i> , <u>1</u> :375-388 (1991) |
| | NI | Khrapko et al., "An oligonucleotide hybridization approach to DNA sequencing," <i>FEBS Letters</i> <u>256</u> (1,2): 118-122 (1989) |
| | NJ | Kim et al., "Investigation of Porphyrins and Metalloporphyrins by Liquid Matrix-assisted Laser Desorption Mass Spectrometry", <i>Mikrochim Acta</i> , <u>113</u> :101-111 (1994) |
| | NK | Kirpekar, et al., "DNA Sequence Analysis by MALDI Mass Spectrometry", <i>Nuclei Acids Res.</i> , <u>26</u> (11):2554-2559 (1998) |
| | NL | Kolli et al., "A New Matrix for Matrix-assisted Laser Desorption/Ionization of Magnetic Sector Instruments with Point Detectors", <i>Rapid Comm. Mass Spec.</i> , <u>10</u> :923-926 (1996) |
| | NM | Köster et al., "A Strategy for Rapid and Efficient DNA Sequencing by Mass Spectrometry", <i>Nat. Biotechnol.</i> , <u>14</u> :1123-1128 (1996) |
| <i>✓</i> | NN | Köster et al., "Oligonucleotide Synthesis and Multiplex DNA Sequencing Using Chemiluminescent Detection," <i>Nucl. Acids Res.</i> , <i>Symposium Series</i> , <u>24</u> :318-321 (1991) |

EXAMINER

Mark C.

DATE CONSIDERED

1/5/2001

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

| | | |
|----------|----|---|
| <i>u</i> | NO | Kovacik <i>et al.</i> , "Liquid Secondary Ion Mass Spectrometry of Methyl Glycosides of Oligosaccharides Using Matrices Containing Carboxamides", <i>Rapid Comm. Mass Spec.</i> , <u>10</u> :166-1667 (1996) |
| | NP | Krishnamurthy <i>et al.</i> , "Rapid Identification of Bacteria by Direct Matrix-assisted Laser Desorption/Ionization Mass Spectrometric Analysis of Whole Cells", <i>Rapid Comm. Mass Spec.</i> , <u>10</u> :1992-1996 (1996) |
| | NQ | Krishnamurthy <i>et al.</i> , "Biomolecules and Mass Spectrometry", <i>J. of Natural Toxins</i> , <u>6</u> (2):121-162 (1997) |
| | NR | Lagerstrom <i>et al.</i> , "Capture PCR: Efficient Amplification of DNA Fragments Adjacent to a Known Sequence in Human and YAC DNA", <i>PCR Methods and applications</i> , <u>1</u> :111-119 (1991) |
| | NS | Laramee <i>et al.</i> , "Evidence for Radical Anion Formation During Liquid Secondary Ion Mass Spectrometry Analysis of Oligonucleotides and Synthetic Oligomeric Analogs: A Deconvolution Algorithm for Molecular Ion Region Clusters", <i>Anal. Chem.</i> , <u>61</u> :2154-2160 (1989) |
| | NT | Leonard <i>et al.</i> , "High-resolution Structure of Mutagenic Lesion in DNA," <i>Proc. Nat. Acad. Sci. Biochem.</i> , <u>87</u> :9573-9576 (1990) |
| | NU | Li <i>et al.</i> , "Pulsed Laser Desorption Method for Volatilizing Thermally Labile Molecules for Supersonic Jet Spectroscopy", <i>Rev. Sci. Instrum.</i> , <u>59</u> (4):557-561 (1988) |
| | NV | Li <i>et al.</i> , "High-resolution MALDI Fourier Transform Mass Spectrometry of Oligonucleotides", <i>Anal. Chem.</i> <u>68</u> (13):2090-2096 (1996) |
| | NW | Little <i>et al.</i> , "Mass Spectrometry from Miniaturized Arrays for Full Comparative DNA Analysis", <i>Nat. Med.</i> , <u>3</u> (12):1413-1416 (1997) |
| | NX | Liu <i>et al.</i> , "Use of a Nitrocellulose Film Substrate in Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry for DNA Mapping and Screening", <i>Anal. Chem.</i> , <u>67</u> :3482-3490 (1995) |
| | NY | Loboda <i>et al.</i> , "Extraction Pulse Generator for Time-of-flight Mass Spectrometry", <i>Rev. Sci. Instrum.</i> , <u>66</u> (9):4740-4741 (1995) |
| | NZ | Lubman <i>et al.</i> , "Linear Mass Reflection with a Laser Photoionization Source for Time-of-flight Mass Spectrometry", <i>Anal. Chem.</i> , <u>55</u> :1437-1440 (1983) |
| <i>v</i> | OA | Maskos, U. and E.M. Southern, "Oligonucleotide hybridisations on glass supports: an novel linker for oligonucleotide synthesis and hybridisation properties of oligonucleotides synthesised <i>in situ</i> ," <i>Nucleic Acids Research</i> <u>20</u> (7): 1679-1684 (1992) |

EXAMINER

John

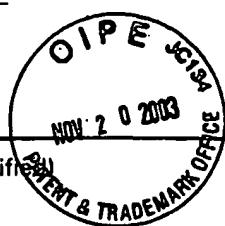
DATE CONSIDERED

1/15/2001

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



| | | |
|---|---------------------------------|--------------------------|
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO. 25491-2408B | SERIAL NO. 10/645,816 |
| | APPLICANT CANTOR et al. | |
| | FILING DATE August 20, 2003 | GROUP Unassigned |

| | | |
|----------|----|---|
| <i>m</i> | OB | Matthews <i>et al.</i> , "Analytical Strategies for the Use of DNA Probes", <i>Anal. Biochem.</i> , <u>169</u> :1-25 (1988) |
| | OC | Maxam <i>et al.</i> , "A New Method for Sequencing DNA", <i>Proc. Natl. Acad. Sci. USA</i> <u>74</u> (2):560-64 (1977) |
| | OD | missing author - "Mass Spectrometry Used to Find Mass of Large Intact Nucleic Acids", <i>Chem. Eng. News</i> , p. 55 (1998) |
| | OE | Mizusawa <i>et al.</i> , "Improvement of the Dideoxy Chain Termination Method of DNA Sequencing by Use of Deoxy-7-deazaguanosine Triphosphate in Place of dGTP", <i>Nucl. Acids Res.</i> , <u>14</u> (3):1319-1324 (1986) |
| | OF | Moalem <i>et al.</i> , "Cluster formation in the Vapor Produced by laser Pulsing of the Y ₁ Ba ₂ Cu ₃ O ₇ Superconducting Solid", <i>J. of Vac. Sci. Tech.</i> , <u>10</u> (5):3292-3299 (1992) |
| | OG | Mosca <i>et al.</i> , "Mass Spectrometry and DNA Analysis", <i>Hemoglobin</i> , <u>17</u> (3):261-268 (1993) |
| | OH | Muddiman <i>et al.</i> , "Length and Base Composition of PCR-Amplified Nucleic Acids Using Mass Measurements from Electrospray Ionization Mass Spectrometry", <i>Anal. Chem.</i> , <u>69</u> (8):1543-1549 (1997) |
| | OI | Naito <i>et al.</i> , "Detection of Tyrosine Hydroxylase mRNA and Minimal Neuroblastoma Cells by the Reverse Transcription-Polymerase Chain Reaction", <i>Eur. J. Cancer</i> , <u>27</u> (6):762-765 (1991) |
| | OJ | Nakamaye <i>et al.</i> , "Direct Sequencing of Polymerase Chain Reaction Amplified DNA Fragments Through the Incorporation of Deoxynucleoside α -Thiotriphosphates", <i>Nucl. Acids Res.</i> , <u>16</u> (21):9947-9959 (1988) |
| | OK | Nelson <i>et al.</i> , "The Accuracy of Quantification from 1D NMR Spectra Using the PIQABLE Algorithm", <i>J. Mag. Res.</i> , <u>84</u> :95-109 (1989) |
| | OL | Nelson <i>et al.</i> , "Time-of-flight Mass Spectrometry of Nucleic Acids by Laser Ablation and Ionization from a Frozen Aqueous Matrix", <i>Rapid Comm. Mass Spec.</i> , <u>4</u> (9):348-351 (1990) |
| | OM | Nordhoff <i>et al.</i> , "Ion Stability of Nucleic Acids in Infrared Matrix-assisted Laser Desorption/Ionization Mass Spectrometry", <i>Nuc. Acids Res.</i> , <u>21</u> (15):3347-3357 (1993) |
| <i>✓</i> | ON | Nordhoff <i>et al.</i> , "Comparison of IR- and UV-matrix-assisted Laser Desorption/Ionization Mass Spectrometry of Oligodeoxynucleotides", <i>Nuc. Acids Res.</i> , <u>21</u> (13):2460-2465 (1993) |

EXAMINER *Mike m* | DATE CONSIDERED *1/9/2009*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



| | | | |
|---|--|---------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | | ATTY. DOCKET NO. 25491-2408B | SERIAL NO. 10/645,816 |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT | | APPLICANT CANTOR et al. | |
| | | FILING DATE August 20, 2003 | GROUP Unassigned |

| | | |
|----------|----|---|
| <i>M</i> | OO | O'Donnell-Maloney <i>et al.</i> , "The Development of Microfabricated Arrays for DNA Sequencing and Analysis", <i>TIBTECH</i> , <u>14</u> :401-407 (1996) |
| | OP | Olsson <i>et al.</i> , "Isolation and Characterization of a Tumor Necrosis Factor Binding Protein from Urine", <i>Eur. J. Haematol.</i> , <u>42</u> :270-275 (1989) |
| | OQ | Ordoukhalian <i>et al.</i> , "Design and Synthesis of a Versatile Photocleavable DNA Building Block. Application to Phototriggered Hybridization", <i>J. Am. Chem. Soc.</i> , <u>117</u> :9570-9571 (1995) |
| | OR | Orita <i>et al.</i> , "Detection of Polymorphisms of Human DNA by Gel Electrophoresis as Single-Strand Conformation Polymorphisms", <i>Proc. Natl. Acad. Sci. USA</i> , <u>86</u> :2766-2770, (1989) |
| | OS | Overberg <i>et al.</i> , "Laser Desorption Mass Spectrometry. Part II Performance and Applications of Matrix-assisted Laser Desorption/Ionization of Large Biomolecules", <i>Mass Spectr. Biol. Sci.</i> , pp. 181-197 (1992) |
| | OT | Palejwala <i>et al.</i> , "Quantitative Multiplex Sequence Analysis of Mutational Hot Spots. Frequency and Specificity of Mutations Induced by a Site-Specific Ethenocytosine in M13 Viral DNA", <i>Biochem.</i> , <u>32</u> :4105-4111 (1993) |
| | OU | Pasini <i>et al.</i> , "RET Mutations in Human Disease", <i>Trends in Genetics</i> , <u>12</u> (4):138-144 (1996) |
| | OV | Pevzner <i>et al.</i> , "Towards DNA Sequencing Chips", In <i>19th Int Conf Mathematical Foundations of Computer Science</i> , Lecturer Notes in Computer Science, Springer-Velag, Berlin, <u>841</u> :143-158 (1994). |
| | OW | Pevzner <i>et al.</i> , "Rearrangements of DNA Sequences and SBH", <i>Computers Chem.</i> , <u>18</u> (3):221-223 (1994) |
| | OX | Polettini <i>et al.</i> , "Fully-automated Systematic Toxicological Analysis of Drugs, Poisons, and Metabolites in Whole Blood, Urine, and Plasma by Gas Chromatography -- Full Scan Mass Spectrometry", <i>J. Chromatography B</i> , <u>713</u> (1):265-279 (1998) |
| | OY | Promé <i>et al.</i> , "Use of Combined Mass Spectrometry Methods for the Characterization of a New Variant of Human Hemoglobin: The Double Mutant Hemoglobin Villeparisis β 77(EF1) His \rightarrow Tyr, β 80(EF4) Asn \rightarrow Ser", <i>J. Am. Chem. Soc. Mass Spectr.</i> , <u>7</u> :163-167 (1996) |
| <i>V</i> | OZ | Richterich <i>et al.</i> , "Cytosine Specific DNA Sequencing with Hydrogen Peroxide", <i>Nucl. Acids Res.</i> , <u>23</u> (23):4922-4923 (1995) |

EXAMINER

M. L. C.

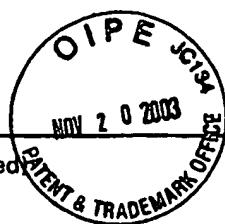
DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



| | | |
|---|---------------------------------|--------------------------|
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO. 25491-2408B | SERIAL NO. 10/645,816 |
| | APPLICANT CANTOR et al. | |
| | FILING DATE August 20, 2003 | GROUP Unassigned |

| | | |
|---|----|--|
| ✓ | PA | Ruckman et al., "Laser-induced Ion Mass Analysis: A Novel Technique for Solid-state Examination", <i>Vacuum</i> , <u>34</u> (10/11):911-924 (1994) |
| | PB | Sadeghi et al., "Compact Tunable Cr:LiSAF for Infrared Matrix-assisted Laser Desorption/Ionization", <i>Rapid Comm. Mass Spec.</i> , <u>11</u> :393-397 (1997) |
| | PC | Sarkar et al., "Human Genetic Bi-allelic Sequences (HGBASE), a Database of Intra-genic Polymorphisms", <u>93</u> (5):693-694 (1998) |
| | PD | Schneider et al., "Increased Stability of Nucleic Acids Containing 7-deaza-guanosine and 7-deaza-adenosine may Enable Rapid DNA Sequencing by Matrix-assisted Laser Desorption Mass Spectrometry", <i>Nucleic Acids Res.</i> , <u>23</u> (9):1570-1575 (1995) |
| | PE | Seckinger et al., "Purification and Biologic Characterization of a Specific Tumor Necrosis Factor α Inhibitor", <i>J. Biochem.</i> , <u>264</u> (20):11966-11973 (1989) |
| | PF | Senko et al., "Automated Assignment of Charge States from Resolved Isotopic Peaks for Multiply Charged Ions", <i>J. Am. Soc. Mass Spec.</i> , <u>6</u> :52-56 (1995) |
| | PG | Siegel et al., "Calicheamicin Derivatives Conjugated to Monoclonal Antibodies: Determination of Loading Values and Distributions by Infrared and UV Matrix-assisted Laser Desorption/Ionization Mass Spectrometry and Electrospray Ionization Mass Spectrometry", <i>Anal. Chem.</i> , <u>69</u> :2716-2726 (1997) |
| | PH | Siegert et al., "Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry for the Detection of Polymerase Chain Reaction Products Containing 7-Deazapurine Moieties", <i>Anal. Biochem.</i> , <u>243</u> :55-65 (1996) |
| | PI | Siuzdak, G., "The Emergence of Mass Spectrometry in Biochemical Research", <i>PNAS</i> , <u>91</u> :11290-11297 (1994) |
| | PJ | Southern et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation Using Experimental Modes", <i>Genomics</i> , <u>13</u> :1008-1017 (1992) |
| | PK | Stahl et al., "Solid Phase DNA Sequencing Using the Biotin-Avidin System", <i>Nucl. Acids Res.</i> , <u>16</u> (7):3025-3039 (1988) |
| | PL | Stults et al., "Improved Electrospray Ionization of Synthetic Oligodeoxynucleotides", <i>Rapid Comm. Mass Spectrom.</i> , <u>5</u> :359-363 (1991) |
| ✓ | PM | Syvanen et al., "Detection of Point Mutations by Solid-Phase Methods", <i>Human Mutation</i> , <u>3</u> :172-179 (1994) |

EXAMINER

✓

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
CANTOR et al.FILING DATE
August 20, 2003GROUP
Unassigned

| | | |
|----------|----|---|
| <i>M</i> | PN | Szybalski <i>et al.</i> , "Universal Restriction Endonucleases: Designing Novel Cleavage Specificities by Combining Adapter Oligodeoxinucleotide and Enzyme Moieties", <i>Gene</i> , <u>40</u> :169-173 (1985) |
| | PO | Takayama, M., "1,5 Pentamediol as a Matrix for Negative-ion Fast Atom Bombardment Mass Spectrometry", <i>Org. Mass Spec.</i> , <u>26</u> :1123-1124 (1991) |
| | PP | Tammen <i>et al.</i> , "Proteolytic Cleavage of Glucagon-like Peptide-1 by Pancreatic β Cells and by Fetal Calf Serum Analyzed by Mass Spectrometry", <i>J. Chrom. A.</i> , <u>852</u> :285-295 (1999) |
| | PQ | Tang <i>et al.</i> , "Matrix-assisted Laser Desorption/Ionization of Restriction Enzyme-digested DNA", <i>Rapid Comm. Mass Spec.</i> , <u>8</u> :183-186 (1994) |
| | PR | Tang <i>et al.</i> , "Matrix-assisted Laser Desorption/Ionization Mass Spectrometry of Immobilized Duplex DNA Probes", <i>Nucleic Acids Res.</i> , <u>23</u> (16):3126-3131 (1995) |
| | PS | Tang <i>et al.</i> , "Chip-based Genotyping by Mass Spectrometry," <i>Proc. Natl. Acad. Sci. USA</i> , <u>96</u> :10016-10020 (1999) |
| | PT | Tas <i>et al.</i> , "Characterization of Virus Infected Cell Cultures by Pyrolysis/Direct Chemical Ionization Mass Spectrometry", <i>Biomed and Environ Mass Spec.</i> , <u>18</u> :757-760 (1989) |
| | PU | Thompson, J., "Fitting Robots with White Coats", <i>Lab. Auto. Info. Manag.</i> , <u>31</u> :173-193 (1996) |
| | PV | Trainor, G., "DNA Sequencing, Automation, and the Human Genome", <i>Anal. Chem.</i> , <u>62</u> :418-426 (1990) |
| | PW | Uhlmann <i>et al.</i> , "Antisense Oligonucleotides: A New Therapeutic Principle", <i>Chemical Reviews</i> , <u>90</u> (4):544-583 (1990) |
| | PX | Welham <i>et al.</i> , "The Rapid Identification of Intact Microorganisms by Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry", <i>Pharmacy and Pharmacology Comm.</i> <u>4</u> :81-87 (1998) |
| | PY | Williams <i>et al.</i> , " <i>p</i> -Nitroaniline/Glycerol: a Binary Liquid Matrix for Matrix-assisted Laser Desorption/Ionization Analysis", <i>Eur. Mass Spec.</i> , <u>4</u> :379-383 (1998) |
| | PZ | Wolter <i>et al.</i> , "Influence of the Matrix on the Analysis of Small Oligoribonucleotides by Fast Atom Bombardment Mass Spectrometry", <i>J. Mass Spec.</i> , <u>30</u> :485-491 (1995) |
| <i>✓</i> | QA | Wu <i>et al.</i> , "Time-of-Flight Mass Spectrometry of Underivatized Single-Stranded DNA Oligomers by Matrix-Assisted Laser Desorption", <i>Anal. Chem.</i> , <u>66</u> :1637-1645 (1994) |

EXAMINER

Mike W.

DATE CONSIDERED

1/15/2004

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
25491-2408B

SERIAL NO.
10/645,816

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

APPLICANT
CANTOR et al.

FILING DATE
August 20, 2003

GROUP
Unassigned

| | | |
|----------|----|---|
| <i>M</i> | QB | Wu <i>et al.</i> , "The Ligation Amplification Reaction (LAR)--Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation", <i>Genomics</i> , <u>4</u> :560-569 (1989) |
| | QC | Yau <i>et al.</i> , "Threshold Fluences for Production of Positive and Negative Ions in Matrix-assisted Laser Desorption/Ionisation Using Liquid and Solid Matrices", <i>Chem. Phys. Lett.</i> , <u>202</u> (1,2):93-100 (1993) |
| | QD | Yoshida <i>et al.</i> , "Detection of High Mass Molecular Ions by Laser Desorption Time-of-flight Mass Spectrometry", <i>Shitsuryo Bunscki</i> , <u>36</u> (2):59-69 (1988) |
| | QE | Youil <i>et al.</i> , "Screening for Mutations by Enzyme Mismatch Cleavage with T4 Endonuclease VII", <i>Proc. Natl. Acad. Sci. USA</i> , <u>92</u> :87-91 (1995) |
| <i>✓</i> | QF | Zuckermann <i>et al.</i> , "Efficient Methods for Attachment of Thiol Specific Probes to the 3'-ends of Synthetic Oligodeoxyribonucleotides", <i>Nucl. Acids Res.</i> , <u>15</u> (13):5305-5321 (1987) |
| | | |

EXAMINER

DATE CONSIDERED

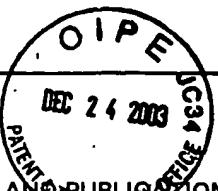
1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title:

USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENTATTY. DOCKET NO.
25491-2408BSERIAL NO.
10/645,816CONFIRM NO.
UnassignedAPPLICANT
Cantor et al.CUSTOMER NO.
24961FILING DATE
08/20/03GROUP
Unassigned

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | DATE | NAME | CLASS | SUB CLASS | FILING DATE | |
|------------------|--|-----------------|---|---|---|---|---|---|------|----------|----------------|-----------|-------------|----------|
| | | A | 4 | 7 | 7 | 5 | 6 | 1 | 9 | 10/16/84 | Urdea | 435 | 6 | 10/04/88 |
| | | B | 4 | 9 | 3 | 5 | 3 | 5 | 7 | 02/05/86 | Szybalski | 435 | 91 | 06/19/90 |
| | | C | 5 | 0 | 0 | 2 | 8 | 6 | 7 | 03/26/91 | Macevicz | 435 | 6 | 10/24/88 |
| | | D | 5 | 1 | 1 | 4 | 8 | 3 | 9 | 05/92 | Blocker | 435 | 6 | 05/26/89 |
| | | E | 5 | 1 | 7 | 4 | 9 | 6 | 2 | 12/29/92 | Brennan | 422 | 78 | 01/24/90 |
| | | F | 5 | 2 | 0 | 2 | 2 | 3 | 1 | 04/13/93 | Drmanac et al. | 435 | 6 | 06/18/91 |
| | | G | 5 | 4 | 3 | 6 | 1 | 4 | 3 | 07/25/95 | Hyman | 435 | 91.2 | 12/23/92 |
| | | H | 5 | 6 | 2 | 2 | 8 | 2 | 4 | 04/22/97 | Köster | 435 | 6 | 02/10/95 |
| | | I | 5 | 6 | 9 | 1 | 1 | 4 | 1 | 11/25/97 | Köster | 435 | 6 | 06/06/95 |
| | | J | 5 | 7 | 9 | 8 | 2 | 1 | 0 | 08/25/98 | Canard et al. | 435 | 6 | 11/20/95 |
| | | K | 6 | 0 | 2 | 2 | 6 | 8 | 8 | 02/08/00 | Jurinke et al. | 435 | 6 | 05/13/96 |
| | | L | 6 | 2 | 2 | 5 | 0 | 6 | 1 | 05/01/01 | Becker et al. | 435 | 6 | 03/10/99 |
| | | M | 6 | 2 | 3 | 2 | 0 | 7 | 6 | 05/15/01 | Schultz | 435 | 6 | 02/04/00 |
| | | N | 6 | 2 | 6 | 8 | 1 | 3 | 1 | 07/31/01 | Kang et al. | 435 | 6 | 12/15/97 |
| | | O | 6 | 4 | 8 | 5 | 9 | 1 | 3 | 11/26/02 | Becker et al. | 435 | 6 | 10/02/00 |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | | | | | | | DATE | COUNTRY | CLASS | Sub Class | Translation Yes No | |
|--|--|-----------------|---|---|---|---|---|---|------|----------|-------|-----------|----------------------------|---|
| | | P | 0 | 0 | 5 | 6 | 4 | 4 | 6 | 09/28/00 | PCT | | | |
| | | Q | 6 | 3 | 5 | 0 | 3 | 0 | 07 | 11/02/88 | JP | | | X |
| | | R | 8 | 7 | 0 | 4 | 1 | 6 | 5 | 07/16/87 | PCT | | | |
| | | S | 9 | 3 | 0 | 8 | 3 | 0 | 5 | 04/29/93 | PCT | | | |
| | | T | 9 | 4 | 1 | 6 | 0 | 9 | 0 | 07/21/94 | PCT | | | |

EXAMINER

Becker

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

| | | | |
|---|-----------------------------------|--------------------------|---------------------------|
| FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO. 25491-2408B | SERIAL NO. 10/645,816 | CONFIRM NO. Unassigned |
| | APPLICANT Cantor <i>et al.</i> | CUSTOMER NO. 24961 | |
| | FILING DATE 08/20/03 | GROUP Unassigned | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | | | | | | | | DATE | COUNTRY | CLASS | Sub Class | Translation Yes | Translation No |
|----------|---|-----------------|---|---|---|---|---|---|----------|------|---------|-------|-----------|--------------------|-------------------|
| <i>m</i> | U | 9 | 4 | 2 | 1 | 8 | 1 | 1 | 09/29/94 | PCT | | | | | |
| | V | 9 | 6 | 1 | 4 | 4 | 0 | 6 | 05/17/96 | PCT | | | | | |
| | W | 9 | 9 | 1 | 4 | 3 | 6 | 2 | 03/25/99 | PCT | | | | | |

X English langAuge equivalent provided

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|----------|----|--|
| <i>m</i> | X | Benner <i>et al.</i> , "Identification of Denatured Double-stranded DNA by Matrix-assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry", <i>Rapid Commu. Mass Spec.</i> , <u>9</u> :537-540 (1995) |
| | Y | Benner <i>et al.</i> , "DNA Base-Pair Substitutions Detected in Double-Stranded DNA With Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry", <i>Eur. Mass Spectrum.</i> , <u>1</u> : 479-485 (1995) |
| | Z | Brenner, "DNA fingerprinting by sampled sequencing", <i>Proc. Natl. Acad. Sci. USA</i> <u>86</u> :8902-8906 (1989). |
| | AA | Cantor CR, "Report on the sequencing by hybridization workshop," <i>Genomics</i> , <u>13</u> :1378-1383 (1992) |
| | AB | Cantor <i>et al.</i> , Sequence-directed DNA manipulation for enhanced mapping and sequencing, <i>Human Genome Program, US Department of Energy, DOE Human Genome Program Contractor-Grantee Workshop IV</i> , (1994) |
| | AC | Ch'ang <i>et al.</i> , "Detection of ΔF508 Mutation of the cystic Fibrosis Gene by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry", <i>Rapid Comm. in Mass Spectrom.</i> , <u>9</u> :772-774, (1995) |
| | AD | Cosstick <i>et al.</i> , "Synthesis and Properties of dithymidine phosphate analogues containing 3'-thiothymidine", <i>Nucl. Acid Res.</i> , <u>18</u> (4):829-835 (1990) |
| | AE | Derwent Abstract Dialog File No. 351 Acces. No. 7209274 for Japanese patent JP 63603007, published 11/02/88. |
| <i>✓</i> | AF | Drmanac <i>et al.</i> , "Laboratory methods: reliable hybridization of oligonucleotides as short as six nucleotides," <i>DNA & Cell Biology</i> <u>9</u> (7):527-534 (1990) |

EXAMINER

M. m

DATE CONSIDERED

1/5/2008

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING

| | | | | |
|--|--|-----------------------------------|--------------------------|---------------------------|
| FORM PTO-1449 | DEC 24 2003 U.S. PATENT AND TRADEMARK OFFICE O I P E | ATTY. DOCKET NO. 25491-2408B | SERIAL NO. 10/645,816 | CONFIRM NO. Unassigned |
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | | APPLICANT Cantor <i>et al.</i> | CUSTOMER NO. 24961 | |
| | | FILING DATE 08/20/03 | GROUP Unassigned | |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|----------|----|--|
| <i>M</i> | AG | Drmanac <i>et al.</i> , An algorithm for the DNA sequence generation from K-tuple word contents of the minimal number of random fragments, <i>J. Biomol. Struct. Dynamics</i> , 5(5):1085-1102 (1991) |
| | AH | Köster <i>et al.</i> , "A strategy for rapid and efficient DNA sequencing by mass spectrometry," <i>Nature Biotechnology</i> 14: 1123-1128 (1996) |
| | AI | Khrapko <i>et al.</i> , "An oligonucleotide hybridization approach to DNA sequencing," <i>FEBS Letters</i> 256(1-2): 118-122 (1989) |
| | AJ | Liu <i>et al.</i> , "Use of a Nitrocellulose Film Substrate in Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry for DNA Mapping and Screening", <i>Anal. Chem.</i> , 67:3482-3490, (1995) |
| | AK | Pevzner, P., 1-turple DNA sequencing: computer analysis, <i>J. Biomol. Struct. Dynamics</i> , 7(1):63-69 (1989) |
| | AL | Szybalski, "Universal restriction endonucleases: designing novel cleavage specificities by combining adapter oligodeoxinucleotide and enzyme moieties", <i>Gene</i> , 40:169-173 (1985) |
| | AM | Tang <i>et al.</i> , "Matrix-assisted Laser Desorption/Ionization of Restriction Enzyme-digested DNA", <i>Rapid Comm. Mass Spec.</i> , 8(2):183-186 (1994) |
| <i>✓</i> | AN | Wu <i>et al.</i> , "Time-of-Flight Mass Spectrometry of Underivatized Single-Stranded DNA Oligomers by Matrix-Assisted Laser Desorption", <i>Anal. Chem.</i> , 66:1637-1645 (1994) |

EXAMINER

Mark M

DATE CONSIDERED

1/5/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: USE OF NUCLEOTIDE ANALOGS IN THE ANALYSIS OF OLIGONUCLEOTIDE MIXTURES AND IN HIGHLY MULTIPLEXED NUCLEIC ACID SEQUENCING